

# FLEXICOKING at Esso Rotterdam

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TU Delft

Aad Rooijmans

Esso Nederland BV  
Flexicoker  
Rotterdam Refinery



# Summary

- Market demand and crude oil supply
- Location Flexicoker in refinery flowsheet
- Conversion : light products out of vacuum residu
- Flexicoking process description
  - Reactor
  - Heater
  - Gasifier
  - Coke transfer between vessels
- Reliability prevails over the last ton thruput



# Market demand and crude oil supply

■ LPG/Gas

■ Nafta/Gasoline

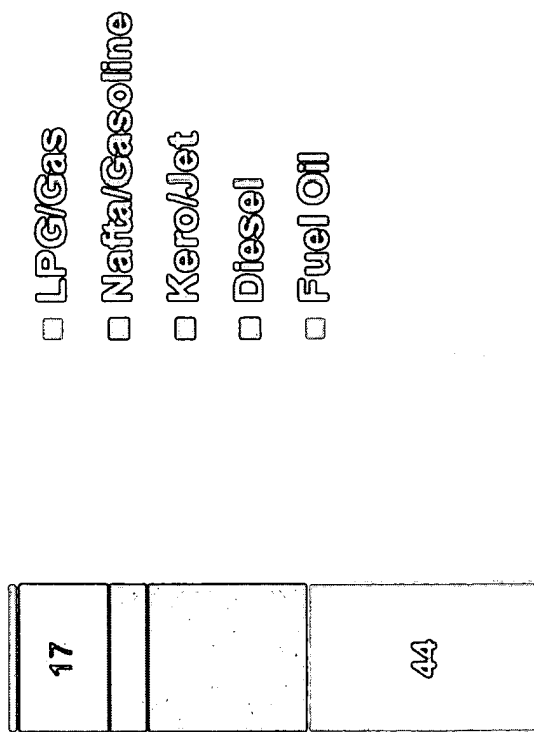
■ Kero/Jet

■ Diesel

■ Fuel Oil



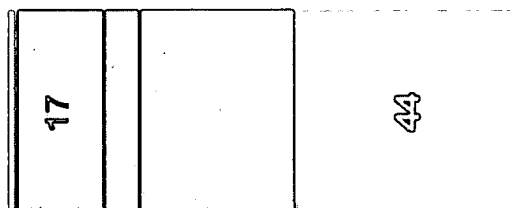
# Market demand and crude oil supply



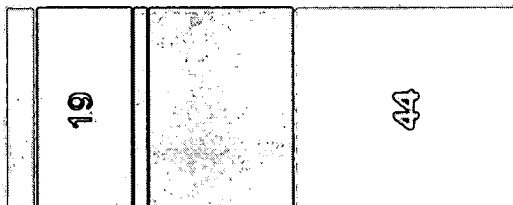
Arabian  
Light



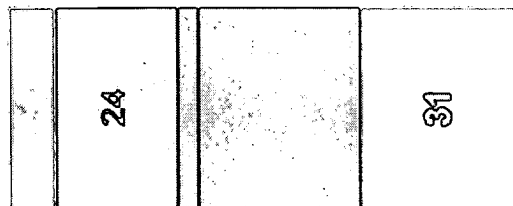
# Market demand and crude oil supply



Arabian Light



1970



1985

- LPG/Gas
- Natta/Gasoline
- Kero/Jet
- Diesel
- Fuel Oil



# Market demand and crude oil supply

